Form 3160-3 (November 1983) (formerly 9-331C) SUBMIT IN LICATE* (Other instructions on reverse side)

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UNITED STATES Tesia NA

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| n approved. get Bureau No. 1004-0136 ires August 31, 1985 | C |

GENERAL REQUIREMENTS AND

SPECIAL SHIP VLANGUAS

| APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1. THE OF WORK DRILL DEEPEN PLUG BACK THE OF WELL OFFICE OF STATE OF STATE OF THE KIN DESCRIPTION ARCO 011 and Gas Company Division of Atlantic Richfield Company P. O. Box 1710, Hobbs, New Mexico 8824 C. C. D. 1. AMAN OF OFFICE OF STATE OF THE | | DEPARTMEN | | | | | 5. LEASE DESIGNATI | ON AND SERIAL NO. |
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| DEPEN PLUS BACK OTHER | | | | | | | | 6. IF INDIAN, ALLOTTEB OR TRIBE NAME |
| DET 23 1905 J. L. Keel "B" DET 23 1905 J. L. Keel "B" D. OE 123 1905 P. O. BOX 1710, Hobbs, New Mexico 88244 D. C. C. D. So, FELL SO. 33 So, FELL SO. 33 So, FELL SO. AL SURGERY OF WILL (Report location dearly and in accordance with land flath confidence of the carried dearly and in accordance with land flath confidence of the carried dearly and in accordance with land flath confidence of the carried dearly and in accordance with land flath confidence of the carried dearly and in accordance with land flath confidence of the carried dearly and in the carried dearly and the carried dearly proposed new product one. If proposed is to drill or deepen directionally, give perificed data on subsurface locations and measured and tree vertical depths. Give blow exercity program. If any. Appendix D. Appendix D. Dearly C. C. C. C. D. Dearly C. | DRI | LL 🛚 | DEEPEN | 7 | The state of the s | - Arrest | 7. UNIT AGREEMENT | T NAMB |
| Division of Atlantic Richfield Company Divisi | | ELL OTHER | | | NOTE X SONE | | 8. FARM OR LEASE | NAMB |
| Division of Atlantic Richfield Company P. O. Box 1710, Hobbs, New Mexico 8824 P. O. Box 1710, Hobbs, New Mexico 8824 Rotters of well (Report location death and is accordance with Lang Edit Records 10 per 1 | | ARCO Oil and Ga | as Company | 1/ | ART so toor | | | "B" |
| P. O. Box 1710, Hobbs, New Mexico 8824 DOCATION OF WILL (Report location clearly and in secondance with same State (Location of Williams, 1900). The same of the State of State (State of State) and secondance with same State (Location of Williams, 1900). The same state of | Division of . | | | | मध्या द्वर ।३४५ | | 9. WELL NO. | |
| The state of the s | | 10 7 11 17 | | 4 | O, C , D | } | | |
| AS SOLO FILE & 860' FEL (Unit Letter A) At proposed prod. 2002 DIPPLACE IN MILES AND DIRECTION FROM NEAREST TOWN OR FOST OFFICE* 7.6 miles northeast of Loco Hills, N. M. DISTANCE FROM PROPOSED* 12. COUNTY OF FARINE IS. BEATE Edgy NM DISTANCE FROM PROPOSED* 13. NO. OF ACRES ASSIGNADD TO THIS MARK. DISTANCE FROM PROPOSED* 14. NO. OF ACRES ASSIGNADD TO THIS MARK. 15. PROPOSED DEPTH 16. NO. OF ACRES ASSIGNADD TO THIS MARK. 17. NO. OF ACRES ASSIGNADD TO THIS MARK. 18. TO THIS MARK. 19. PROPOSED CASING AND CEMENTING PROGRAM SILE OF HOLE SIZE OF CAMING SIZE OF CAMING WEIGHT FER FOOT PROPOSED CASING AND CEMENTING PROGRAM SILE OF HOLE SIZE OF CAMING WEIGHT FER FOOT PROPOSED CASING AND CEMENTING PROGRAM SILE OF HOLE SIZE OF CAMING WEIGHT FER FOOT SATTING DEFTH QUANTITY OF CEMENT 17-1/2" 13-3/8" OD 24# K-55 450' 470 sx Circ 7-7/8" 5-1/2" OD 15.5# K-55 3550' 920 sx Circ Propose to drill a development well and test the producing capabilities of the Grayburg Jackson zones. Blowout Preventer Program attached ADDIT SATE DISC. THE DIST. Drig. Supv. DATE /0-10-88 (This space for Federal or State office use) | P. U. BOX 17 | 10, Hobbs, New | Mexico 8824 | | | | _ | < F |
| AND SERVET OR AREA ARD PROPOSED PROGRAM: If proposed is to deepen or plug back, give data on present productive some and proposed new product of the Grayburg Jackson zones. Blowout Preventer Program attached AND SUSPECTION FOR AREA ASSUMED. AROUSE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive some and proposed new product is. If proposal is to drill or deepen directlocally, give pertinent data on subsurface locations and measured and true vertical depths. APPROVAL DATE. APPROVAL DATE. APPROVAL DATE. APPROVAL DATE. APPROVAL DATE. APPROVAL DATE. (This apace for Pederal or State office use) | At surface | | | | rate tentilements. | | | |
| 7.6 miles northeast of Loco Hills, N. M. Biday Frounds Eddy NM | | | Letter A) | | | | AND SURVEY OR | AREA |
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| 3. DISTANCE FROM PROPOSED DECRITOR* 30 NATION (SHOW WHICHER TOOLS ON THIS MANS, PT. HEWATONS (Show Whether DF, RT, GR, etc.) 3768.7' PROPOSED CASING AND CEMENTING PROGRAM SIZE OF ROLE SIZE OF CASING WEIGHT PER FOOT SHITING DEPTH QUANTITY OF CEMENT 26" 20" OD Cond Pripe 30' 3 yds Redi mix 17-1/2" 13-3/8" OD 54.5 ft K-55 450' 470 sx Circ 12-1/4" 8-5/8" OD 24 ft K-55 1515' 900 sx Circ 7-7/8" 5-1/2" OD 15.5 ft K-55 3550' 920 sx Circ Propose to drill a development well and test the producing capabilities of the Grayburg Jackson zones. Blowout Preventer Program attached ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new product new 1 proposed in the Grayburg Jackson zones. Blowout Preventer Program attached ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new product new 1 proposed in the Grayburg Jackson zones. Blow of the Grayburg Jackson zones and proposed new productive sone and propo | LOCATION TO NEAREST PROPERTY OR LEASE I | T Line. Pt. | | | | | OF ACRES ASSIGNED THIS WELL | |
| ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive some and proposed new productive reventer program. If any. Approval data on subsurface locations and measured and true vertical depths. Give blow eventer program. If any. | S. DISTANCE FROM PROP | OSED LOCATION* | orth & bast | | | 20. вот. | | |
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| (This space for Federal or State office use) PERMIT NO | eventer program, if an | - | • 6 | | | | | |
| PERMIT NO APPROVAL DATE | | eral or State office use) | TI TI | TLE | vrse mile onb | · · · · · · · · · · · · · · · · · · · | DATE / | , |
| 1 / la start | • | | | | APPROVAL DATE | | | |
| APPROVED BY TITLE DATE | 0 | work | Centra | TLE | 11 6 14 A 60 A | | DATE 10 | 22.85 |
| CONDITIONS OF APPROVAL, IF ANY: APPROVAL SUBJECT TO | CONDITIONS OF APPROV | AL, IF ANY: | | | | | APPROVAT | SUBJECT TO - |

*See Instructions On Reverse Side

MEXICO OIL CONSERVATION COMMIS.

Form C-102

OCTOBER 8,1985

Registered Professional Engineer

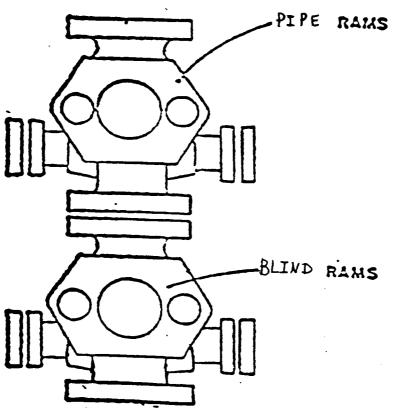
RONALD J. EIDSON

676

3239

Supersedes C-128 WELL LOCATION AND ACREAGE DEDICATION PLAT Effective 1-,-65 All distances must be from the outer boundaries of the Section perator West two 33 ARCO OIL & GAS COMPANY J. L. KEEL "B" Div. of Atlantic Richfield Company Township 17 SOUTH 31 EAST EDDY Antual Fortage Location of Well: Shill feet from the NORTH 300 EAST Ground Level Elev Producing Formation Poc! edinated Anreage: Queen Grayburg SA Grayburg Jackson 40 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and rovalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? If answer is "yes!" type of consolidation Yes ∃No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 860 Dist Drlg. Supt. ARCO Oil and Gas Company Div of Atlantic Richfield Co. . 1te 10/11/85 I hereby certify that the well location shown on this plat was plotted from field is true and correct to the best of my knowledge and belief. Date Surveyed

2000



ARCO Oil & Gas Company
Division of Atlantic Richfield Company

Blow Out Preventer Program

| Lease 'Name_ | J. L. Keel "B" |
|--------------|------------------|
| Well No | 33 |
| Location | Sec 6-17S-31E |
| | Eddy County, N M |

BOP to be tested when installed on well and will be maintained in good working condition during drilling. All wellhead fittings to be of sufficient pressure to operate in a safe manner.

| To s | suppleme | ent | USGS | Form | 3160-3 " | App | olication | for | Pε | rmit | to | Dril | 1, | Deepe | n or |
|------|----------|-----|------|--------|----------|-----|-----------|-----|----|-------|------|------|----|-------|------|
| Plu | gback", | the | foll | lowing | additio | nal | informat: | ion | is | submi | itte | d to | CC | omply | with |
| USG: | S Order | NTL | -6. | | | | | | | | | | | | |

| 0 | perator: | ARCO | 011 | and | Gas | Company | _ | Division | of | Atlantic | Richfield | Company |
|---|----------|------|-----|-----|-----|---------|---|----------|----|----------|-----------|---------|
| | | | | | | | | | | | | |

Lease & Well No: J. L. Keel "B" #33

Location: Unit Letter A

Section 6-T17S-31E, Eddy County, New Mexico

Lease, New Mexico LC-029435-B

Development well X Exploratory well _____

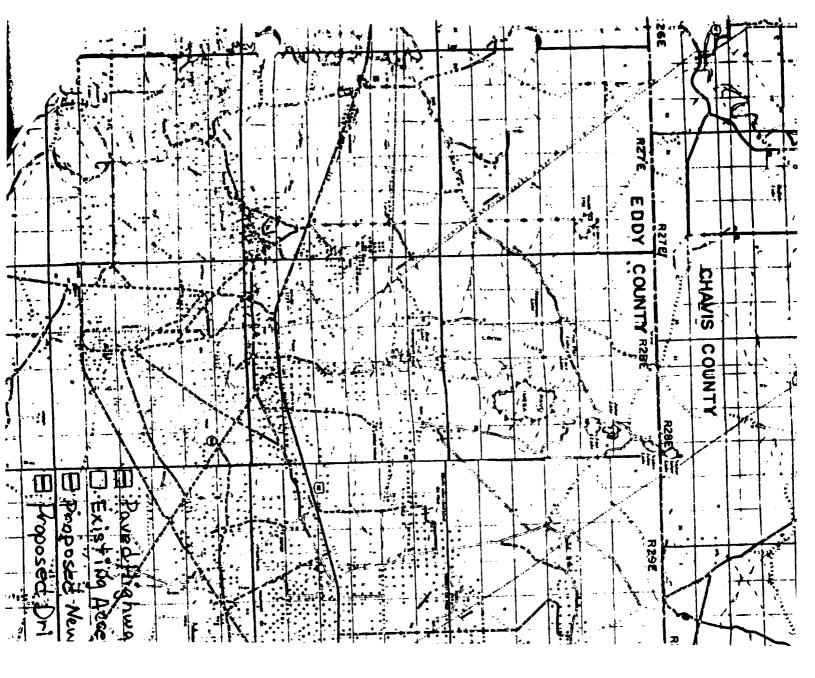
- 1. See Well Location and Acreage Dedication Plat Form C-102.
- 2. See Form 3160-3 for elevation above sea level of unprepared location.
- 3. The geologic name of the surface formation is: Permian Artesian Group
- 4. The type of drilling tools and associated equipment to be utilized will be: Rotary
- 5. The proposed drilling depth will be 3550'.
- 6. The estimated tops of important geologic markers are:

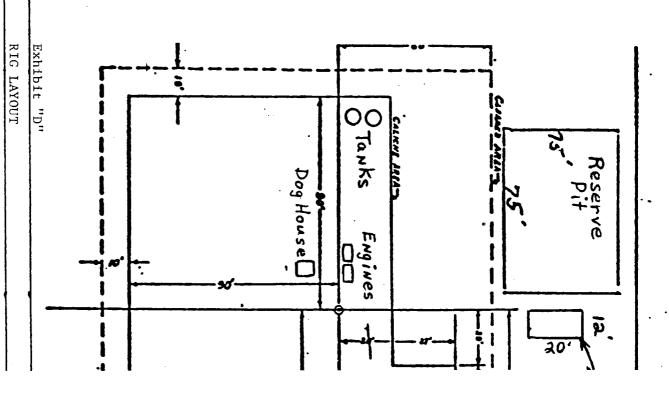
| Top of Salt | 500 ' | Seven Rivers | 1800' | San Andres | 3150' |
|--------------|--------------|--------------|---------------|------------|-------|
| Base of Salt | 1400' | Queen | 2400' | | |
| Yates | 1500' | Grayburg | 2850 ' | | |

7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are:

| Fresh water | r (Ground Basin) | 250' |
|-------------|------------------|---------------|
| Queen | | 2450 ' |
| Oil & Gas | Grayburg | 2850 ' |
| Oil & Gas | San Andres | 3150' |

- 8. The proposed casing program including the size, grade and weight-per-foot of each string has been indicated on Form 3160-3. All strings of casing will be: New X Used ____.
- 9. See Form 3160-3 for amount of cement.





Eddy County, New Mexico J. L. Keel "B" #33

860' FNL & 860' FEL Section 6-17S-31E

ARCO 011 and Gas Company - Division of Atlantic Richfield